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said prodrug being a substrate to said enzyme and hydrolyzed by said enzyme molecules present within the tumor, said hydrolysis forming a water-insoluble drug precipitate molecule, wherein said precipitate is trapped within the extracellular space of the solid tumor.

- 2. (Unchanged) The method as recited in claim 1, wherein the enzyme is produced naturally by tumor cells.
- 3. (Unchanged) The method as recited in claim 2, wherein the enzyme is produced at concentrations higher than that in normal tissues.

Claim 4 is withdrawn from consideration.

- 5. The method as recited in claim 1, wherein the enzyme is selected from the group consisting of a phosphatase, a cellulase, a deaminase, a DNAse, an endonuclease, an exonuclease, a glucosidase, a glucoronidase, a plucoronidase, an iduronidase, a nitrophenylphosphatase, a peptidase, a protease, an RNAse, and a sulfatase.
- 6. (Unchanged) The method as recited in claim 1, wherein the enzyme is localized specifically on the surfaces of tumor cells, following the administration of said enzyme chemically conjugated to a targeting moiety.
- 7. (Unchanged) The method as recited in claim 6, wherein the targeting moiety is a ligand that binds specifically to a tumor-specific receptor.
- 8. (Unchanged) The method as recited in claim 7, wherein the ligand is selected from the group consisting of an antibody, a peptide, and a hormone.
- 9. (Unchanged) The method as recited in claim 8, wherein the receptor is a tumor-specific antigen.

- 10. (Unchanged) The method as recited in claim 8, wherein the receptor is specific to the peptide.
- 11. (Unchanged) The method as recited in claim 8, wherein the receptor is specific to the hormone.
- 12. (Unchanged) The method as recited in claim 6, wherein the conjugate is injected intravenously, intra-arterially, subcutaneously, into the lymphatic circulation, intraperitoneally, intrathecally, intratumorally, or intravesically.
- 13. (Unchanged) The method as recited in claim 1, wherein the water-soluble prodrug is injected intravenously, intra-arterially, subcutaneously, into the lymphatic circulation, intraperitoneally, intrathecally, intratumorally, intravesically, or is given orally.
- 14. (Amended) The method as recited in claim 1, wherein the prodrug substrate is represented by the following formula:

wherein BLOCK is a blocking group that can be cleaved from the remainder of the substrate by action of an enzyme, resulting in a water-insoluble drug molecule represented by the following formula:

wherein D contains a minimum of 2 linked aromatic rings, and R<sup>1</sup> is a radioactive atom, a radiolabeled moiety with one or more radioactive atom(s), a boron atom, or a moiety labeled with one or more boron atoms.

15. (Unchanged) The method as recited in claim 14, wherein the radiolabel is selected from the group consisting of a gamma emitting radionuclide suitable for gamma camera imaging, a positron emitting radionuclide suitable for positron emission tomography, and an alpha or a beta

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particle emitting radionuclide suitable for therapy.

- 16. (Unchanged) The method as recited in claim 15, wherein the alpha particle emitting radionuclide is a statine-211, bismuth-212, or bismuth-213.
- 17. (Unchanged) The method as recited in claim 15, wherein the beta particle emitting radionuclide emits beta particles whose energies are greater than 1 keV.
- 18. (Unchanged) The method as recited in claim 15, wherein the beta particle emitting radionuclide is iodine-131, copper-67, samarium-153, gold-198, palladium-109, rhenium-186, rhenium-188, dysprosium-165, strontium-89, phosphorous-32, phosphorous-33, or yttrium-90.
- 19. (Unchanged) The method as recited in claim 14, wherein the boron atom is suitable for neutron activation.
- 20. (Unchanged) The method as recited in claim 14, wherein the BLOCK is selected from the group consisting of:

a monovalent blocking group derivable by removal of one hydroxyl from a phosphoric acid group, a sulfuric acid group, or a biologically compatible salt thereof;

a monovalent blocking group derivable by removal of a hydroxyl from an alcohol or an aliphatic carboxyl, an aromatic carboxyl, an amino acid carboxyl, or a peptide carboxyl; and a monovalent glycoside derived by the removal of the anomeric hydroxyl group from a mono- or polysaccharide.

Please add the following new claims:

21. (New) The method of claim 14, wherein R-D comprises quinazolinone dye having the formula:

wherein R comprises  $R_1$  and/or  $R_2$  and  $R_1$  and  $R_2$  comprise a radioactive atom, a radiolabeled moiety with one or more radioactive atom(s), a boron atom, or a moiety labeled with one or more boron atoms.

22. (New) The method of claim 14, wherein R-D comprises a the following compound resulting from the enzymatic hydrolysis of 5-bromo-4-chloro-3-indolyl  $\beta$  –D-galactose by  $\beta$  –D-galactosidase:

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